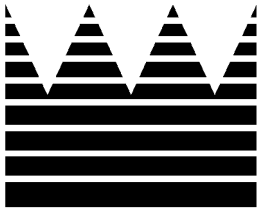

**Model 161**

# Soft Serve Freezer

## Operating Instructions

TAYLOR®

**055155-M**

**10/02/01**

**Complete this page for quick reference when service is required:**

Taylor Distributor: _____

Address: _____

Phone: _____

Service: _____

Parts: _____

Date of Installation: _____

**Information found on the data label:**

Model Number: _____

Serial Number: _____

Electrical Specs: Voltage _____ Cycle _____

Phase _____

Maximum Fuse Size: _____ A

Minimum Wire Ampacity: _____ A

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055155–M

TAYLOR®

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Taylor Company
750 N. Blackhawk Blvd.
Rockton, IL 61072

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**Note: Continuing research results in steady improvements; therefore, information in this manual is subject to change without notice.**

*Notes:*

# Section 1 To the Installer

**This machine is designed for indoor use only.**

**DO NOT** install the machine in an area where a water jet could be used. Failure to follow this instruction may result in serious electrical shock.

## Air Cooled Units

The Model 161 requires 6" (152 mm) on both sides, and 0" at the rear. Install the skirt provided on the right side of the unit. Minimum air clearances must be met to assure adequate air flow for optimum performance.

## Electrical Hook-Up Installation

**(60 Cycle, 1 Ph, Supplied With Cord and Plug)**

This freezer is supplied with a 3-wire cord and grounding type plug for connection to a single phase, 60 cycle, branch circuit supply. This unit must be plugged into a properly grounded receptacle. The cord and plug provided for 208/230/60/1, is 20A; therefore the wall outlet must also be 20A. Check the data label, located on the side panel, for electrical specifications.

Permanent wiring may be employed if required by local codes. Instructions for conversion to permanent wiring are as follows:

1. Be sure the freezer is electrically disconnected.
2. Remove the appropriate panel and locate the small electrical box at the base of the freezer.
3. Remove the factory-installed cord and strain relief bushing.
4. Route incoming permanent wiring through 7/8" (22 mm) hole in base pan.
5. Connect two power supply leads. Attach ground (earth) wire to the grounding lug inside the electrical box.
6. Be sure the unit is properly grounded before applying power.

**FOLLOW YOUR LOCAL ELECTRICAL CODES!**

## Electrical Connections

**(Models Without Cord and Plug Supplied)**

Each freezer requires one power supply for each data label. Check the data label on the freezer for fuse, circuit ampacity and electrical specifications. Refer to the wiring diagram provided inside of the control box, for proper power connections.

In the United States, this equipment is intended to be installed in accordance with the National Electrical Code (NEC), ANSI/NFPA 70–1987. The purpose of the NEC code is the practical safeguarding of persons and property from hazards arising from the use of electricity. This code contains provisions considered necessary for safety. Compliance therewith and proper maintenance will result in an installation essentially free from hazard!

In all other areas of the world, equipment should be installed in accordance with the existing local codes. Please contact your local authorities.

Stationary appliances which are not equipped with a power cord and a plug or other device to disconnect the appliance from the power source must have an all–pole disconnecting device with a contact gap of at least 3 mm installed in the external installation.

**CAUTION: THIS EQUIPMENT MUST BE PROPERLY GROUNDED!** Failure to do so can result in severe personal injury from electrical shock.

Beater rotation must be clockwise as viewed looking into the freezing cylinder.

**Note: The following procedures should be performed by a trained service technician.**

To correct rotation on a three-phase unit, interchange any two incoming power supply lines at freezer main terminal block only. To correct rotation on a single-phase unit, change the leads inside the beater motor. (Follow diagram printed on motor.)

Electrical connections are made directly to the terminal block provided in the splice boxes which are mounted mid-level on the frame channel on the sides of the freezer.

# Section 2 To the Operator

The Model 161 soft serve freezer has been carefully engineered and manufactured to give you dependable operation.

This unit, when properly operated and cared for, will produce a consistent quality product. Like all mechanical products, it will require cleaning and maintenance. A minimum amount of care and attention is necessary if the operating procedures outlined in this manual are followed closely.

This Operator's Manual should be read before operating or performing any maintenance on your equipment.

The Model 161 will NOT eventually compensate and correct for any errors during the set-up or filling operations. Thus, the initial assembly and priming procedures are of extreme importance. It is strongly recommended that personnel responsible for the equipment's operation, both assembly and disassembly, go through these procedures together in order to be properly trained and to make sure that no misunderstandings exist.

In the event you should require technical assistance, please contact your local authorized Taylor Distributor.

If the crossed out wheeled bin symbol is affixed to this product, it signifies that this product is compliant with the EU Directive as well as other similar legislation in effect after August 13, 2005. Therefore, it must be collected separately after its use is completed, and cannot be disposed as unsorted municipal waste.

The user is responsible for returning the product to the appropriate collection facility, as specified by your local code.

For additional information regarding applicable local laws, please contact the municipal facility and/or local distributor.

## Compressor Warranty Disclaimer

The refrigeration compressor(s) on this machine are warranted for the term indicated on the warranty card accompanying this machine. However, due to the Montreal Protocol and the U.S. Clean Air Act Amendments of 1990, many new refrigerants are being tested and developed, thus seeking their way into the service industry. Some of these new refrigerants are being advertised as drop-in replacements for numerous applications. It should be noted that, in the event of ordinary service to this machine's refrigeration system, **only the refrigerant specified on the affixed data label should be used**. The unauthorized use of alternate refrigerants will void your compressor warranty. It will be the owner's responsibility to make this fact known to any technician he employs.

It should also be noted that Taylor does not warrant the refrigerant used in its equipment. For example, if the refrigerant is lost during the course of ordinary service to this machine, Taylor has no obligation to either supply or provide its replacement either at billable or unbillable terms. Taylor does have the obligation to recommend a suitable replacement if the original refrigerant is banned, obsoleted, or no longer available during the five year warranty of the compressor.

The Taylor Company will continue to monitor the industry and test new alternates as they are being developed. Should a new alternate prove, through our testing, that it would be accepted as a drop-in replacement, then the above disclaimer would become null and void. To find out the current status of an alternate refrigerant as it relates to your compressor warranty, call the local Taylor Distributor or the Taylor Factory. Be prepared to provide the Model/Serial Number of the unit in question.

# Section 3 Safety

We at Taylor Company are concerned about the safety of the operator when he or she comes in contact with the freezer and its parts. Taylor has gone to extreme efforts to design and manufacture built-in safety features to protect both you and the service technician. As an example, warning labels have been attached to the freezer to further point out safety precautions to the operator.

**IMPORTANT - Failure to adhere to the following safety precautions may result in severe personal injury. Failure to comply with these warnings may damage the machine and its components. Component damage will result in part replacement expense and service repair expense**.

## To Operate Safely:

**DO NOT** operate the freezer without reading this operator's manual. Failure to follow this instruction may result in equipment damage, poor freezer performance, health hazards, or personal injury.

- **DO NOT** operate the freezer unless it is properly grounded.
- **DO NOT** operate the freezer with larger fuses than specified on the freezer data label.
- **DO NOT** attempt any repairs unless the main power supply to the freezer has been disconnected.

Failure to follow these instructions may result in electrocution. Contact your local authorized Taylor Distributor for service.

**DO NOT** use a water jet to clean or rinse the freezer. Failure to follow these instructions may result in serious electrical shock.

- **DO NOT** allow untrained personnel to operate this machine.
- **DO NOT** put objects or fingers in door spout.
- **DO NOT** operate the freezer unless all service panels and access doors are restrained with screws.
- **DO NOT** remove the freezer door or beater assembly unless the control switches are in the "OFF" position.

Failure to follow these instructions may result in severe personal injury from hazardous moving parts.

**USE EXTREME CAUTION** when removing the beater assembly. The scraper blades are very sharp and may cause injury.

This freezer must be placed on a level surface. Failure to comply may result in personal injury or equipment damage.

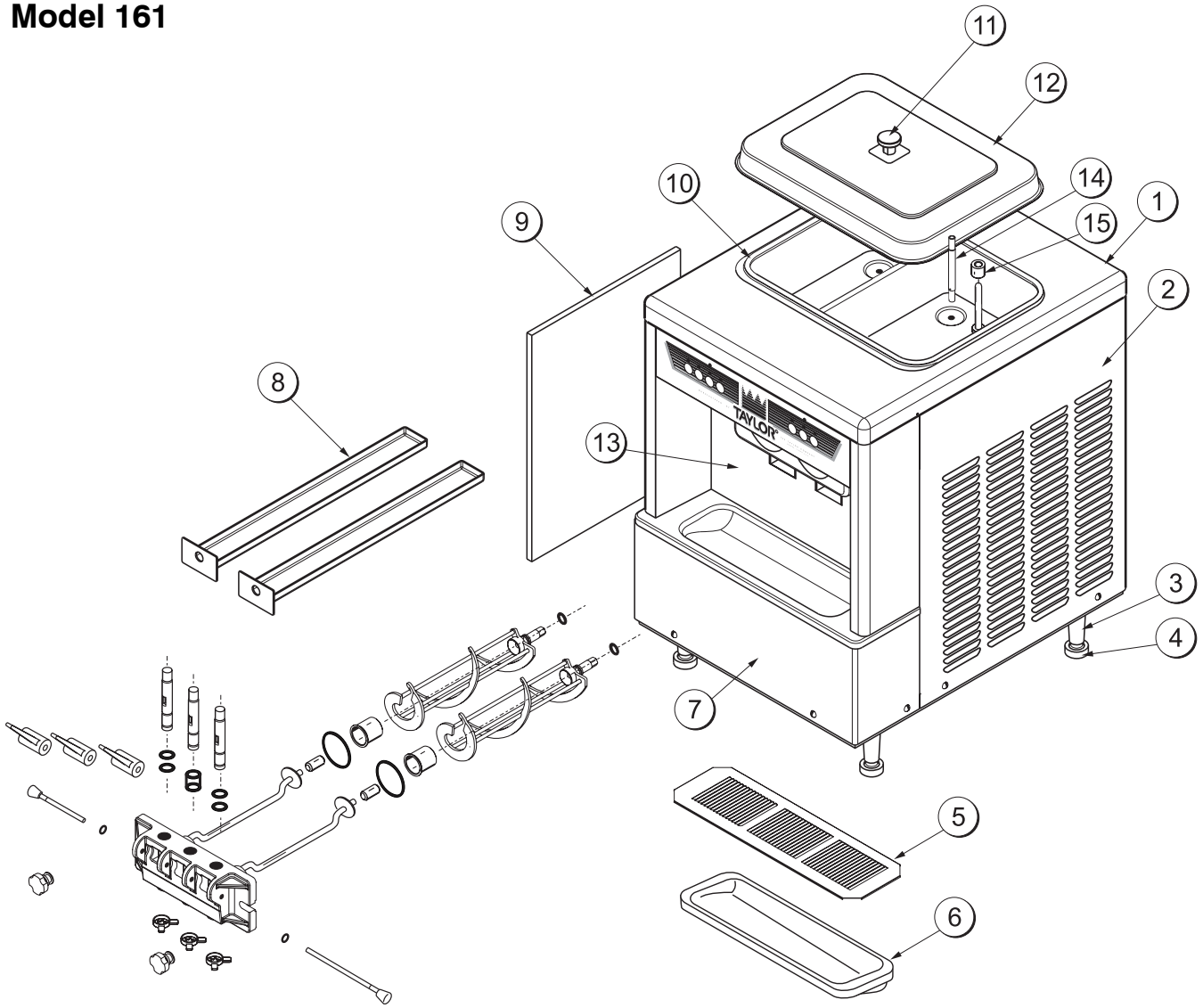
**DO NOT** obstruct air intake and discharge openings: A minimum of 6" (152 mm) on both sides, and 0" in the rear is required. Install the skirt provided on the right side of the unit. Failure to follow this instruction may cause poor freezer performance and damage to the machine.

This freezer is designed to operate indoors, under normal ambient temperatures of 70°-75°F (21°-24°C). The freezer has successfully performed in high ambient temperatures of 104°F (40°C) at reduced capacity.

**NOISE LEVEL:** Airborne noise emission does not exceed 78 dB(A) when measured at a distance of 1.0 meter from the surface of the machine and at a height of 1.6 meters from the floor.

# Section 4 Operator Parts Identification

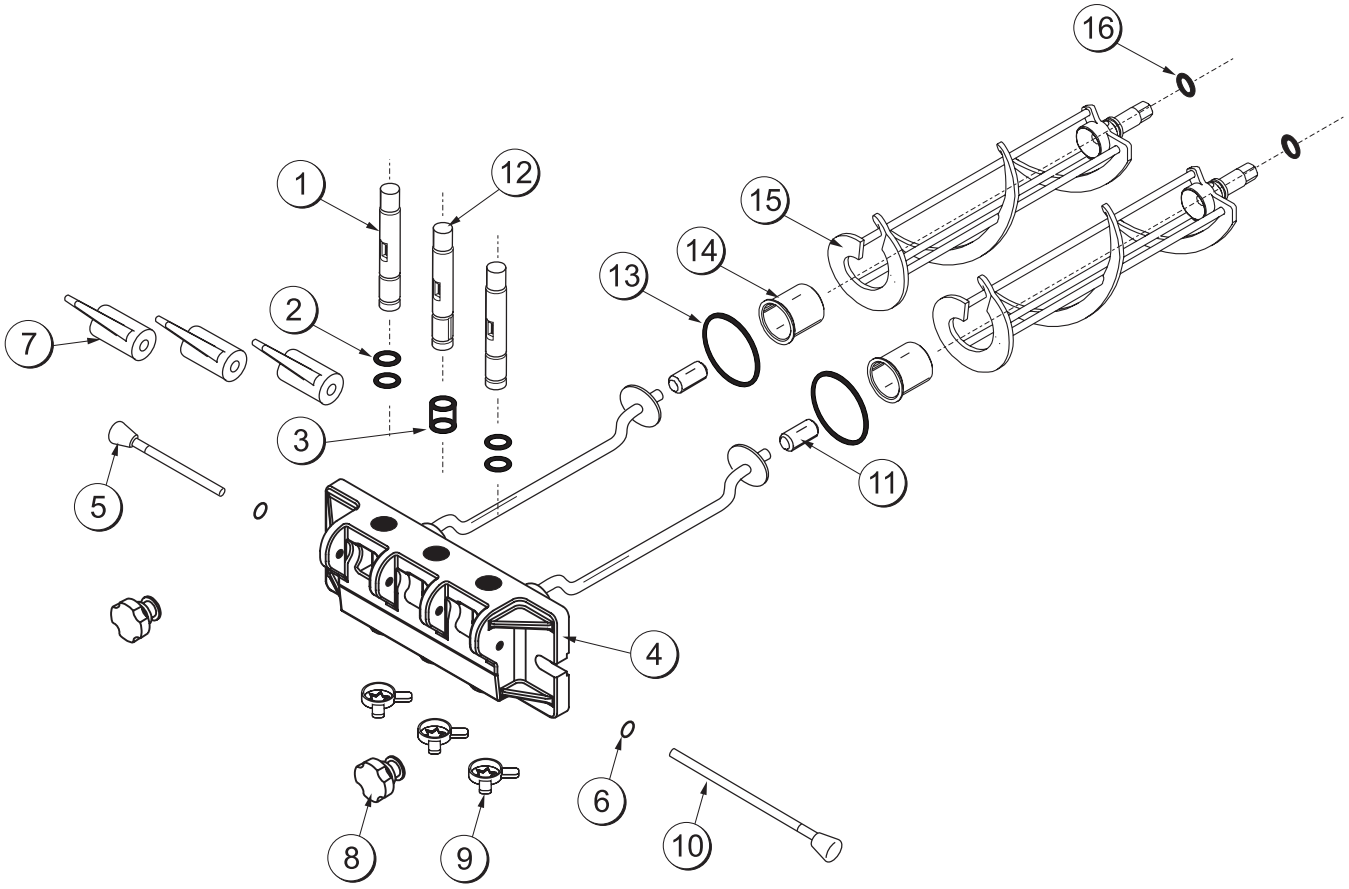
## Model 161




| ITEM | DESCRIPTION | PART NO. |
|---|---|---|
| 1 | PANEL-REAR *161* | 055129 |
| 2 | PANEL-SIDE-RIGHT *161* | 055130 |
| 3 | LEG-4” 3/8-16 STUD | 036397 |
| 4 | CAP-RUBBER | 037268 |
| 5 | SHIELD-SPLASH | 022765 |
| 6 | TRAY-DRIP 16-7/8L X 5-1/8 | 020157 |
| 7 | PANEL-LOWER FRONT *161* | 055513 |
| 8 | PAN-DRIP *161* | 055206 |

| ITEM | DESCRIPTION | PART NO. |
|---|---|---|
| 9 | PANEL A.-SIDE LEFT *161* | X55122 |
| 10 | GASKET-HOPPER COVER | 037042 |
| 11 | KNOB-MIX COVER | 025429 |
| 12 | COVER A.-HOPPER | X37963-SER |
| 13 | PANEL A.-FRONT *161* | X55203 |
| 14 | TUBE–FEED | 030797 |
| 15 | COLLAR–MIX PROBE | 031628 |

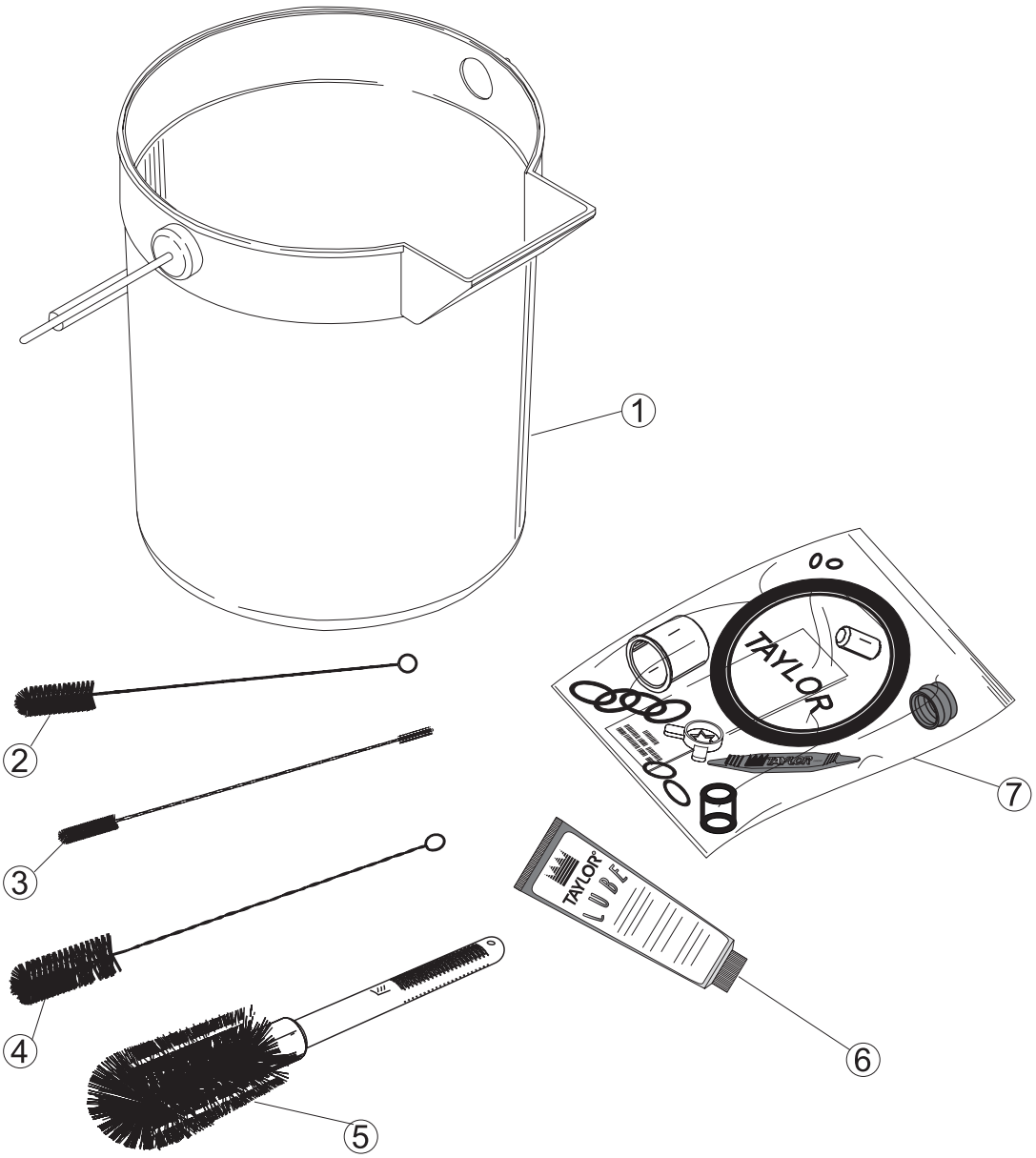
## Beater Door Assembly




| ITEM | DESCRIPTION | PART NO. |
|---|---|---|
| 1 | DRAW VALVE | 024763 |
| 2 | O-RING 7/8 OD X .103 W | 014402 |
| 3 | SEAL-VALVE | 030930 |
| 4 | DOOR A.-3 SPOUT | X30753-SER |
| 5 | PIVOT PIN A.-SHORT | X38539 |
| 6 | O-RING 5/16 OD X .070 W | 016272 |
| 7 | DRAW VALVE HANDLE | 030564 |
| 8 | HAND SCREW (STUD NUT) | 034829 |

| ITEM | DESCRIPTION | PART NO. |
|---|---|---|
| 9 | DESIGN CAP | 014218 |
| 10 | PIVOT PIN A.-LONG | X38538 |
| 11 | GUIDE BEARING | 014496 |
| 12 | CENTER DRAW VALVE | 031164 |
| 13 | O-RING 2-3/4 OD X .139 W | 019998 |
| 14 | FRONT BEARING | 023262 |
| 15 | BEATER ASSEMBLY | X24689 |
| 16 | O-RING-13/16 OD X .139 W | 021278 |

## Accessories

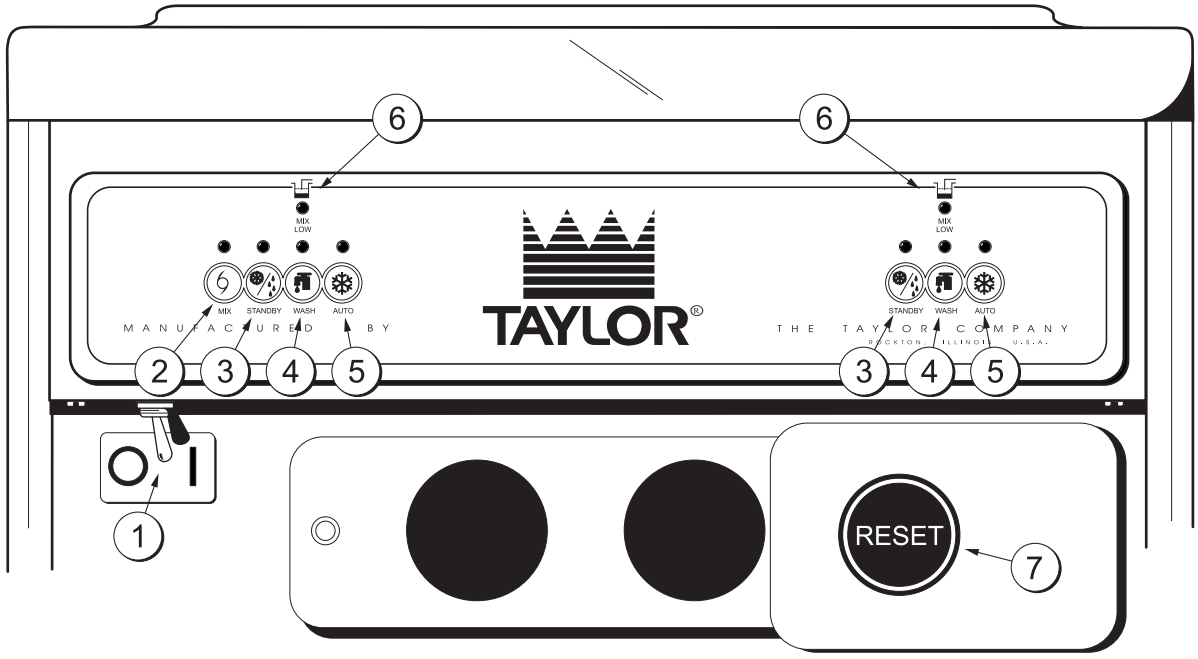



| ITEM | DESCRIPTION | PART NO. |
|---|---|---|
| 1 | PAIL-6·QT. | 023348 |
| 2 | BRUSH-REAR BRG 1” D X 2” LG | 013071 |
| 3 | BRUSH-DOUBLE·ENDED | 013072 |
| 4 | BRUSH-DRAW·VALVE·1” OD X 2” X 17” | 013073 |

| ITEM | DESCRIPTION | PART NO. |
|---|---|---|
| 5 | BRUSH-MIX·PUMP·BODY-3”X7” WHITE | 023316 |
| 6 | LUBRICANT-TAYLOR·4·OZ. | 047518 |
| 7 | KIT·A.-TUNE·UP | X31167 |
| * | SANITIZER KAY-5 125 PKTS | 041082 |

*NOT SHOWN

# Section 5 Important: To the Operator




| ITEM | DESCRIPTION |
|---|---|
| 1 | POWER SWITCH |
| 2 | MIX REFRIGERATION KEY |
| 3 | STANDBY KEY |
| 4 | WASH KEY |
| 5 | AUTO KEY |
| 6 | INDICATOR LIGHT “MIX LOW” |
| 7 | RESET BUTTON |

## Symbol Definitions

To better communicate in the International arena, the words on many of our operator switches and keys have symbols to indicate their functions. Your Taylor equipment is designed with these International symbols.

The following chart identifies the symbol definitions used on the operator switches.

= OFF

= ON

= MIX

= STANDBY

= WASH

= AUTO

= MIX LOW

## Softech™ Control Machines

**Note:** If your machine is not equipped with Softech™ controls, please use the instructions on page 10.

### Power Switch

When placed in the ON position, the power switch allows Softech™ control panel operation.

### MIX REF

When the MIX REF key is pressed, the light comes on indicating the mix hopper refrigeration system is operating. MIX REF is controlled by the left side of the freezer as viewed from the operator end. The MIX REF function cannot be cancelled unless the AUTO or STANDBY modes are cancelled first.

### STANDBY Key

The Separate Hopper Refrigeration System (SHR) and the Cylinder Temperature Retention System (CTR) are standard features on Softech™ machines. The SHR incorporates the use of a separate small refrigeration system. This maintains the mix in the hopper below 40°(4.4°C) to assure bacteria control. The CTR works with the SHR to maintain a good quality product. During long “No Sale” periods, it is necessary to warm the product in the freezing cylinder to approximately 35°F to 40°F (1.7°C to 4.4°C) to prevent overbeating and product breakdown.

To activate the SHR and CTR, press the STANDBY key. Place the end of the air tube without the hole into the mix inlet hole.

When the STANDBY key is pressed, the light comes on, indicating the CTR (Cylinder Temperature Retention System) has been activated. In the STANDBY mode, the WASH and AUTO functions are automatically cancelled. The MIX REF function is automatically locked in to maintain the mix in the hopper.

To resume normal operation, press the AUTO key. When the unit cycles off, the product in the freezing cylinder will be at serving viscosity. At this time, place the orifice end of the air tube into the mix inlet hole. Install the air orifice.

### WASH Key

When the WASH key is pressed, the light comes on. This indicates beater motor operation. The STANDBY or AUTO modes must be cancelled first to activate the WASH mode.

### AUTO Key

When the AUTO key is pressed, the light comes on. This indicates that the main refrigeration system has been activated. In the AUTO mode, the WASH or STANDBY functions are automatically cancelled. The MIX REF function is automatically locked in to maintain the temperature of the mix in the mix hopper.

**Note:** An indicating light and an audible tone will sound whenever a mode of operation has been pressed. To cancel any function, press the key again. The light and mode of operation will shut off.

### Indicator Light - MIX LOW

Located on the front of the machine is a mix level indicating light. When the light is flashing, it indicates that the mix hopper has a low supply of mix and should be refilled as soon as possible. Always maintain at least 3” (76 mm) of mix in the hopper. If you neglect to add mix, a freeze-up may occur. This will cause eventual damage to the beater, blades, drive shaft, and freezer door.

### Reset Button

The reset button is located on the front of the unit. The reset protects the beater motor from an overload condition. If an overload occurs, the reset mechanism will trip. To properly reset the freezer, press the AUTO key to cancel the cycle. Turn the power switch to the OFF position. Press the reset button firmly.

**Warning: Do not use metal objects to press the reset button. Failure to comply may result in severe personal injury or death.**

Turn the power switch to the ON position. Press the WASH key and observe the freezer’s performance. Open the side access panel. Make sure the beater motor is turning the drive shaft in a clockwise direction (from the operator end) without binding.

If the beater motor is turning properly, press the WASH key to cancel the cycle. Press the AUTO key on both sides of the unit to resume normal operation. If the freezer shuts down again, contact a service technician.

## Air Tube

The air tube serves two purposes. One end of the tube has an orifice (hole) and the other end does not.

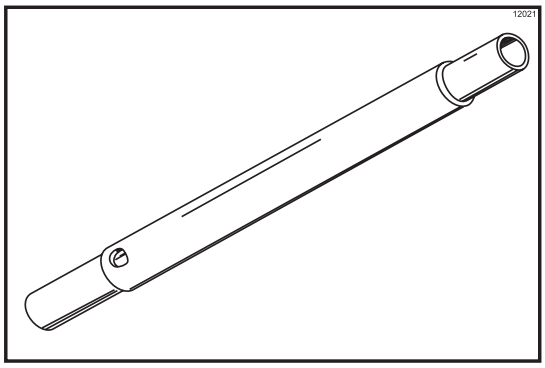



Figure 1

1. After priming the machine, place the orifice end of the air tube into the mix inlet hole. Every time the draw handle is raised, new mix and air from the hopper will flow down into the freezing cylinder. This will keep the freezing cylinder properly loaded and will maintain overrun.
2. During long “No Sale” periods, remove the air tube. Replace the air tube with the (end without hole), into the mix inlet hole. This will prevent any mix from entering the freezing cylinder.

   The air tube maintains overrun and allows enough mix to enter the freezing cylinder after a draw.

## Non-Softech™ Control Machines

**Note:** If your machine is equipped with the Softech™ controls, please use the instructions on page 7.

### Push-Button Switch

If an overload condition occurs, the freezer will automatically stop operating. To properly reset the freezer, place the toggle switch in the OFF position. Wait two or three minutes; then press the push-button switch. Place the power switch in the WASH position and observe the freezer's performance; place the power switch in the AUTO position.

**Note:** If the freezer is unplugged from the wall receptacle, it will be necessary to press the push-button switch for the freezer to operate once power is re-established.

### Power Switch

The center position is OFF. The left position is WASH which activates the beater motor only. The right position is AUTO, which activates the beater motor and the refrigeration system.

### Air Tube

The Model 161 is called upon to handle a large variety of products (i.e., soft serve, yogurts, Italian ices, sherbets, etc.). Thus, the consistency of the mix you use will vary. The air tube meters a combination of mix and air into the freezing cylinder. If not enough mix enters the freezing cylinder, a freeze-up may occur, which will cause eventual damage to the beater. Depending upon the product being run, you may wish to contact your local authorized Taylor Distributor to make a slight adjustment in the air tube.

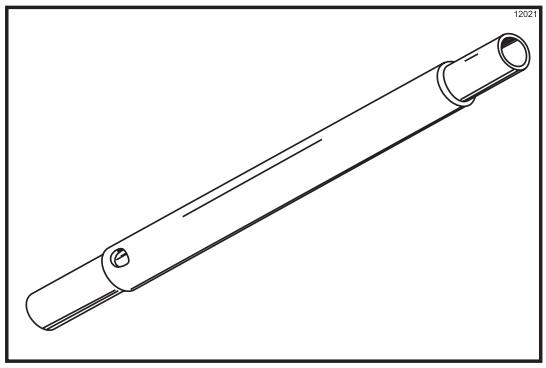



Figure 2

**Note:** During AUTO operation, the orifice end of the tube should be inserted in the hole in the hopper.

### Taylor Quality Control

The Model 161 uses a solid state control called the Watt Control. The purpose of this solid state control is to sense the viscosity (thickness) of the product in the freezing cylinder. With the power switch in the AUTO position, the Watt Control will automatically keep the mix in the freezing cylinder at the proper viscosity and ready for serving.

### Indicator Light - Mix Low

A mix level indicating light is located at the front of the machine. When the light is on, it indicates that the mix hopper has a low supply of mix and should be refilled as soon as possible. Always maintain at least 2" (51 mm) of mix in the hopper. If you neglect to add mix, a freeze-up may occur. This will cause eventual damage to the beater assembly and to the freezer door.

# Section 6 Operating Procedures

The Model 161 is a soft serve counter model with a three spout door. Two individual flavors are available from the end spouts, and an equal combination of both is dispensed through the center spout to create a twist effect. It has a 1.5 quart (1.4 liter) capacity freezing cylinder. The mix flows by gravity from the hopper to the freezing cylinder through an air tube.

Duplicate the procedures where they apply for the second freezing cylinder.

We begin our instructions at the point where we enter the store in the morning and find the parts disassembled and laid out to air dry from the previous night's cleaning.

These opening procedures will show you how to assemble these parts into the machine, sanitize them, and prime the machine with fresh mix in preparation to serve your first portion.

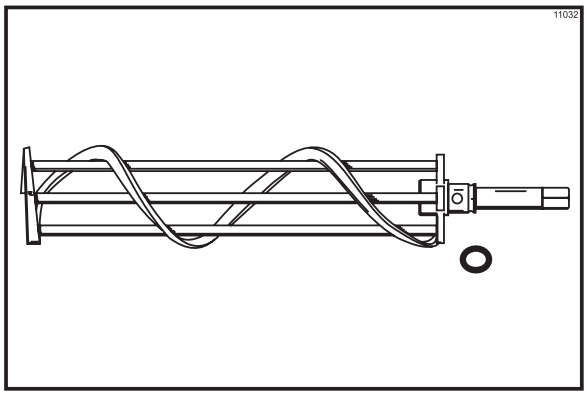



Figure 3

If you are disassembling the machine for the first time or need information to get to the starting point in our instructions, turn to page 18, "Disassembly", and start there.

## Assembly

**Note:** When lubricating parts, use an approved food grade lubricant (example: Taylor Lube).

**Step 1**
To install the beater assembly, slide the small, thick o-ring into the groove on the drive shaft of the beater assembly. Apply an even coat of lubricant to the o-ring and the shaft. **DO NOT** lubricate the hex end.

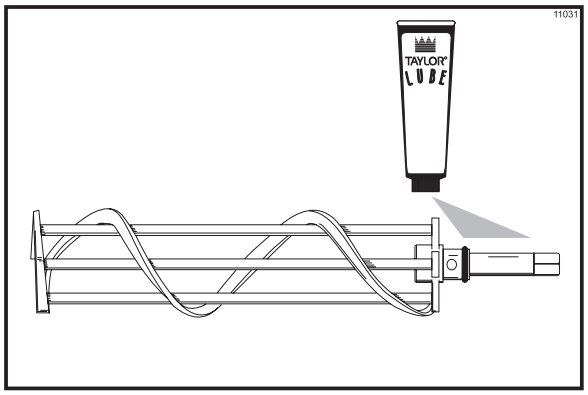



Figure 4

**Step 2**
Insert the beater assembly through the rear shell bearing at the back of the freezing cylinder and engage the hex end firmly into the female socket. When properly seated, the beater will not protrude beyond the front of the freezing cylinder.

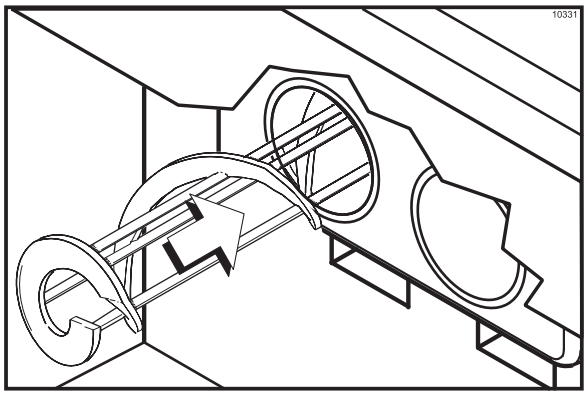



Figure 5

Repeat Steps 1 through 2 for the second freezing cylinder.

**Step 3**
Place the large o-rings into the grooves on the back of the machine door and lubricate.

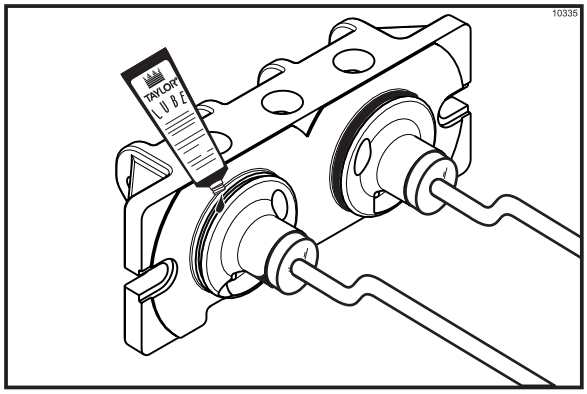



Figure 6

**Step 4**
Slide the front bearings over the baffle rods so the flanged edge is against the door. Place the white plastic guide bearings on the end of the baffle rods.

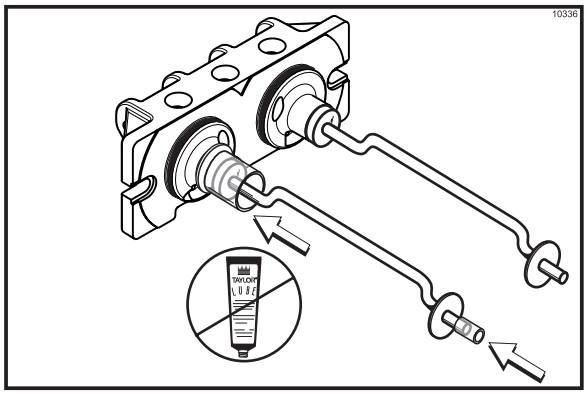



Figure 7

**DO NOT** lubricate the front bearings or the guide bearings.

**Step 5**
Install the freezer door. Insert the handscrews into the slots in the freezer door. With both hands, hold the sides of the freezer door and insert the baffle rods into the center of the beater assemblies. The white guide bearings must fit securely in the holes of the drive shafts. Finger-tighten the handscrews equally to insure that the door is snug. **Do not over-tighten.**

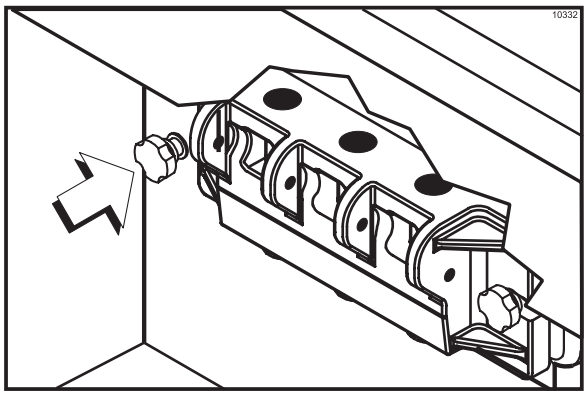



Figure 8

**Note:** The freezer door is in the correct position when the door spouts are on the bottom.

**Step 6**
Slide the two o-rings into the grooves on the draw valves and lubricate.

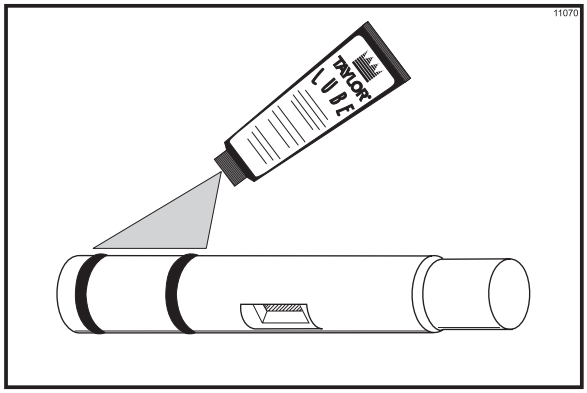



Figure 9

**Step 7**
Install the valve seal in the grooves on the center draw valve and lubricate. This special seal will prevent mix from one freezing cylinder from traveling into the second cylinder.

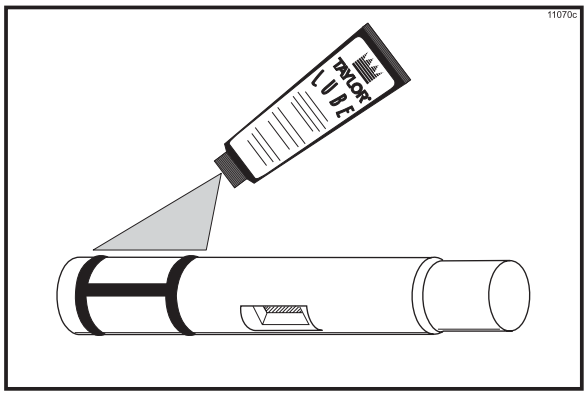



Figure 10

**Step 8**
Lubricate the inside of the freezer door spouts from the **bottom**. Insert the draw valves into the freezer door from the **bottom** until the slot in the draw valves comes into view.

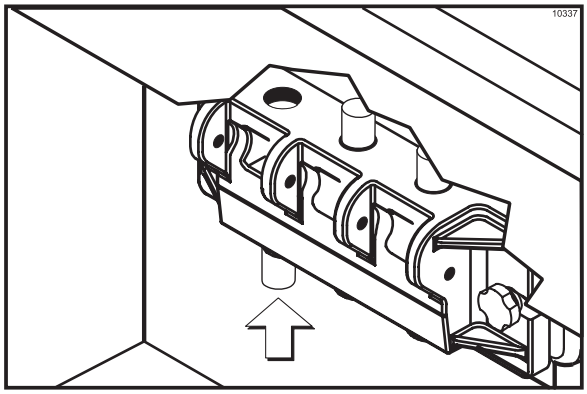



Figure 11

**Step 9**
Slide the o-ring onto each pivot pin and lubricate.

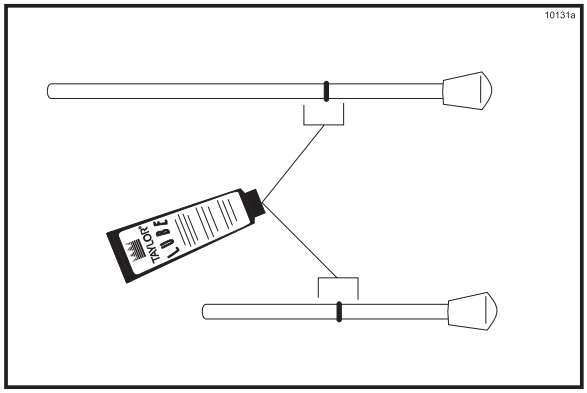



Figure 12

**Step 10**
Slide the tip of the draw handle into the slot of the draw valve, starting from the right. Slide the short pivot pin through the far right draw handle. Slide the long pivot pin through the far left and middle draw handles.

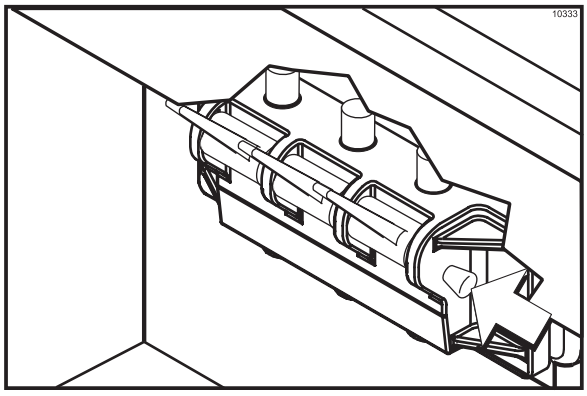



Figure 13

**Step 11**
Snap the design caps over the bottom of the freezer door spouts.

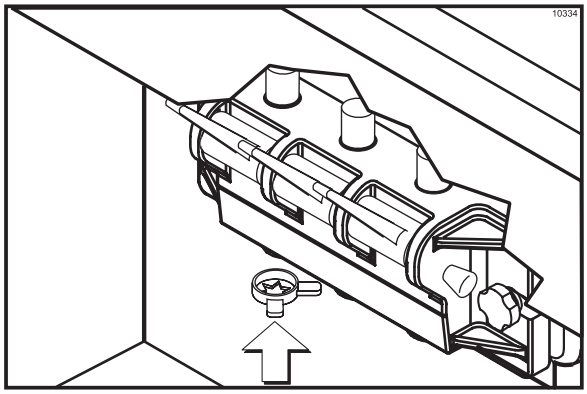



Figure 14

**Step 12**
Lay the air tubes in the bottom of the mix hoppers.

## Sanitizing

**Step 1**
Prepare one gallon (3.8 liters) of an approved 100 PPM sanitizing solution (example: Kay-5®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

**Step 2**
Pour the sanitizing solution into the hopper and allow it to flow into the freezing cylinder.

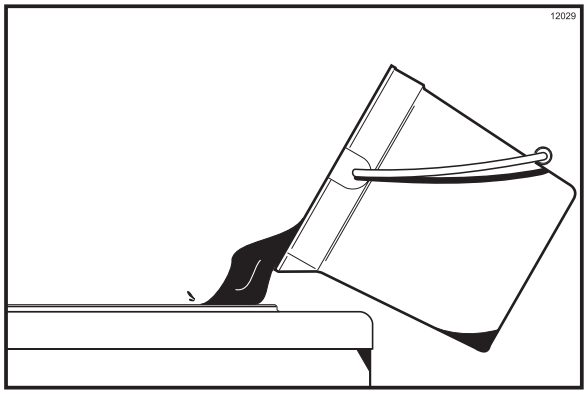



Figure 15

**Step 3**
While the solution is flowing into the freezing cylinder, brush-clean the mix hopper, mix level float, mix inlet hole, and air tube. Brush-clean the mix level float and stem (non-Softech™ machines only).

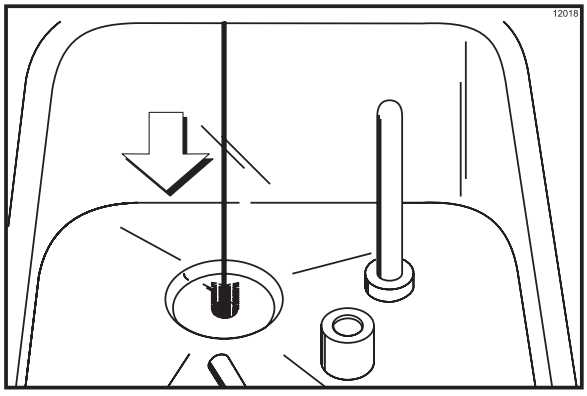



Figure 16

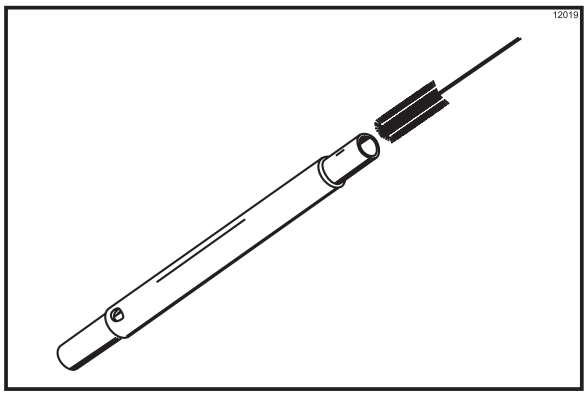



Figure 17

**Step 4**
Place the power switch in the ON position.

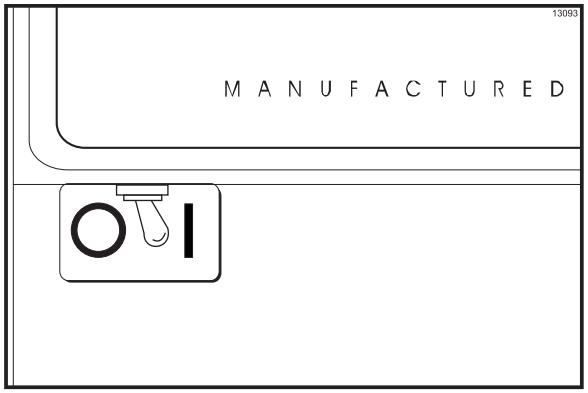



Figure 18

**Note: Non-Softech™ machines:** Press the push-button switch.

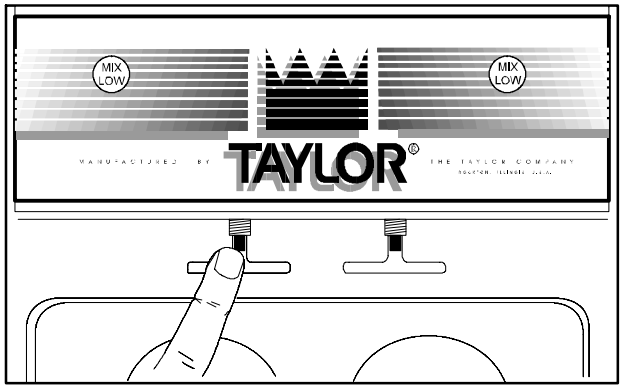



Figure 19

**Step 5**
Press the WASH key. This will cause the sanitizing solution in the freezing cylinder to be agitated. Allow it to agitate for five minutes.

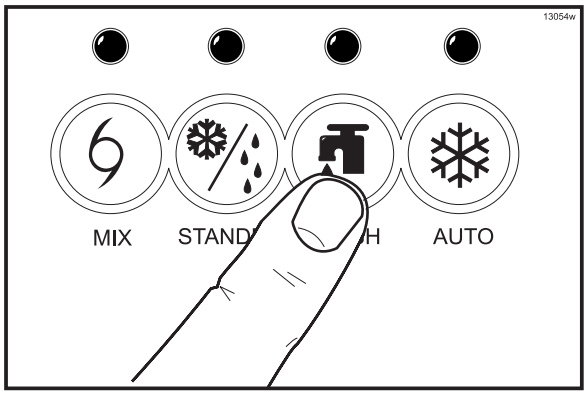



Figure 20

**Note: Non-Softech™ machines:** Place the power switch in the WASH position. This will cause the sanitizing solution in the freezing cylinder to be agitated. Allow it to agitate for five minutes.

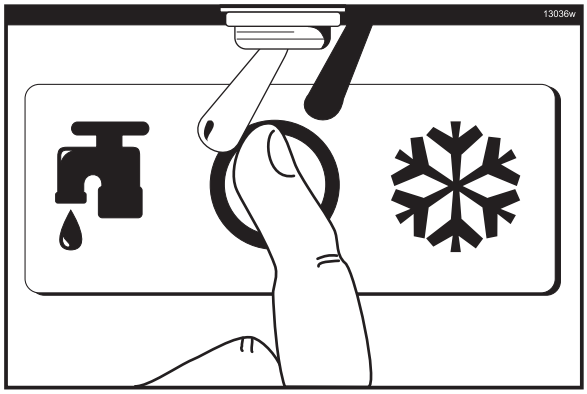



Figure 21

**Step 6**
Place an empty pail beneath the door spouts and raise the draw valves. Momentarily pull down the center draw handle to sanitize the center door spout. Draw off all of the sanitizing solution. When the sanitizer stops flowing from the door spouts, lower the draw valves and place the power switch in the OFF position.

**Step 7**
With sanitized hands, stand the air tube in the corner of the mix hopper. Place the mix level float on the mix level float stem (non-Softech™ machines only).

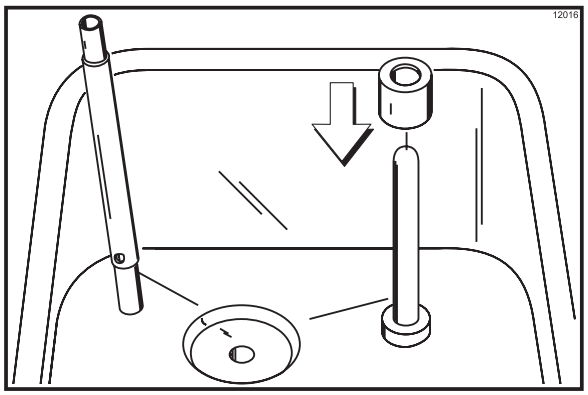



Figure 22

Repeat Steps 1 through 7 for the second freezing cylinder.

## Priming

Prime the machine as close as possible to the time of first product draw.

**Step 1**
With a pail beneath the door spouts, open the draw valves. Fill the mix hopper with FRESH mix and allow it to flow into the freezing cylinder. This will force out any remaining sanitizing solution. When full strength mix is flowing from the door spouts, close the draw valves.

**Note: Use only fresh mix when priming the machine.**

**Step 2**
When the mix has stopped bubbling down into the freezing cylinder, install the air tube in the mix inlet hole.

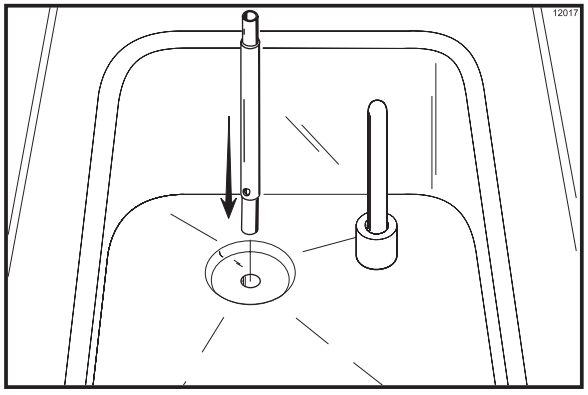



Figure 23

**Step 3**
Press the AUTO key. When the unit cycles off, the product will be ready to serve.

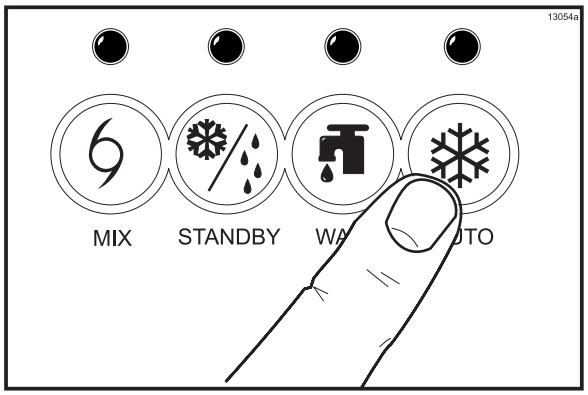



Figure 24

**Note: Non-Softech™ machines:** Place the power switch in the AUTO position. When the unit cycles off, the product will be ready to serve.

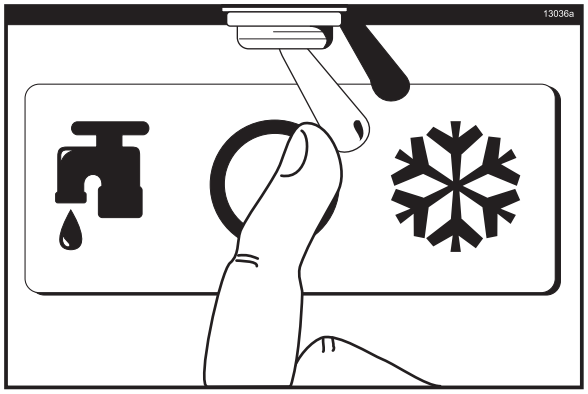



Figure 25

**Step 4**
Momentarily raise the draw switch to activate the refrigeration cycle.

**Step 5**
Place the mix hopper cover in position.

Repeat Steps 1 through 5 for the second freezing cylinder.

**Step 6**
Install the front drip tray and splash shield under the freezer door.

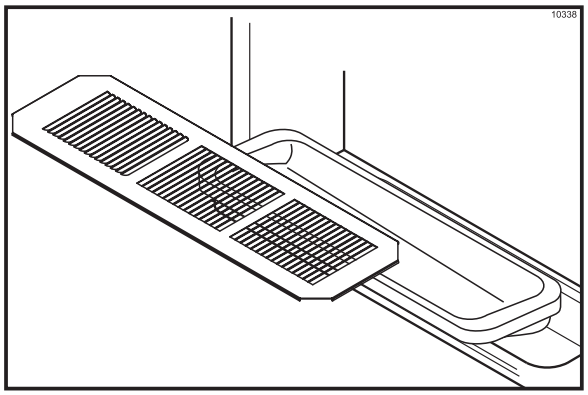



Figure 26

**Step 7**
Slide the rear drip pan into the hole in the side panel.

## Closing Procedure

To disassemble the Model 161, the following items will be needed:

- Two cleaning pails
- Sanitized stainless steel rerun can with lid
- Necessary brushes (provided with machine)
- Cleaner
- Single service towels

## Draining Product From the Freezing Cylinder

**Step 1**
Press the AUTO key to cancel operation. Press the MIX REF key to cancel hopper refrigeration. These operations should be cancelled as far ahead of cleaning time as possible. This will allow frozen product to soften for easier cleaning.

**Note: Non-Softech™ machines:** Place the power switch in the OFF position as far ahead of cleaning time as possible. This will allow frozen product to soften for easier cleaning.

**Step 2**
Lift the hopper cover. Remove the air tube and mix level float. Take them to the sink for cleaning.

**Step 3**
With a sanitized pail beneath the door spouts, place the power switch in the WASH position and open the draw valves. When all the product stops flowing from the door spouts, close the draw valves and place the power switch in the OFF position. If local health codes permit, empty the rerun into a sanitized stainless steel rerun can. Cover the container and place it in the walk-in cooler.

Repeat Steps 1 through 3 for the second freezing cylinder.

**ALWAYS FOLLOW LOCAL HEALTH CODES.**

## Rinsing

**Step 1**
Pour one gallon (3.8 liters) of **cool**, clean water into the mix hopper. With the brushes provided, scrub the mix hopper, and the mix inlet hole.

**Note: Non-Softech™ machines:** Scrub the mix level float stem.

**Step 2**
With a pail beneath the door spouts, press the WASH key and open the draw valves.

**Note: Non-Softech™ machines:** Place the power switch in the WASH position.

**Step 3**
Drain all the rinse water from the freezing cylinder. When the rinse water stops flowing from the door spout, close the draw valves and press the WASH key to cancel.

**Note: Non-Softech™ machines:** Place the power switch in the OFF position to cancel.

Repeat this procedure until the rinse water being drawn from the freezing cylinder is **clear**.

Repeat Steps 1 through 3 for the second freezing cylinder.

## Cleaning

**Step 1**
Prepare one gallon (3.8 liters) of an approved cleaning solution (example: Kay-5®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

**Step 2**
Pour the one gallon (3.8 liters) of cleaning solution into the mix hopper and allow it to flow into the freezing cylinder.

**Step 3**
While the solution is flowing into the freezing cylinder, brush-clean the mix hopper, mix level float stem and mix inlet hole.

**Step 4**
Press the WASH key. This will cause the cleaning solution in the freezing cylinder to agitate.

**Note: Non-Softech™ machines:** Place the power switch in the WASH position.

**Step 5**
Place an empty pail beneath the door spouts and raise the draw valve. Draw off all the cleaning solution. When the solution stops flowing from the door spouts, close the draw valves. Press the WASH key to cancel.

**Note: Non-Softech™ machines:** Place the power switch in the OFF position to cancel.

Repeat Steps 1 through 5 for the other side of the machine.

## Disassembly

**MAKE SURE THE POWER SWITCH IS IN THE "OFF" POSITION.** Failure to follow this instruction may result in severe personal injury to fingers or hands from hazardous moving parts.

**Step 1**
Remove the handscrews and the freezer door. Remove the beater assemblies from the freezing cylinders and take these parts to the sink for cleaning.

**Step 2**
Remove the front drip tray and the splash shield from the machine. Take them to the sink for cleaning.

## Brush Cleaning

**Step 1**
Prepare a sink with an approved cleaning solution (example: Kay-5®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

**IMPORTANT:** Follow label directions, as too STRONG of a solution can cause parts damage, while too MILD of a solution will not provide adequate cleaning.) Make sure all brushes provided with the machine are available for brush cleaning.

**Step 2**
Remove the o-rings from the drive shafts of the beater assemblies.

**Note:** To remove the o-rings, use a single service towel to grasp the o-ring. Apply pressure in an upward direction until the o-ring pops out of its groove. With the other hand, push the top of the o-ring forward, and it will roll out of the groove and can be easily removed. If there is more than one o-ring to be removed, always remove the rear o-ring first. This will allow the o-ring to slide over the forward rings without falling into the open grooves.

**Step 3**
From the freezer door, remove design caps, pivot pins, draw handles, and draw valves. Remove all o-rings.

**Step 4**
Remove the large o-rings, front bearings, and guide bearings from the back of the freezer door.

**Step 5**
Return to the machine with a small amount of cleaning solution. With the black bristle brush, brush clean the rear shell bearings at the back of the freezing cylinders.

**Step 6**
Remove the rear drip pan from the side panel and take it to the sink for cleaning.

**Note:** If the drip pan is filled with an excessive amount of mix, this is an indication that the drive shaft o-ring of the beater assembly should be replaced or properly lubricated.

**Step 7**
Thoroughly brush clean all disassembled parts in the cleaning solution. Make sure all lubricant and mix film is removed. Take particular care to brush clean the draw valve cores in the freezer door. Place all the cleaned parts on a clean, dry surface to air dry overnight.

**Step 8**
Wipe clean all exterior surfaces of the machine.

# Section 7 Important: Operator Checklist

## During Cleaning and Sanitizing

**ALWAYS FOLLOW LOCAL HEALTH CODES.**

Cleaning and sanitizing schedules are governed by your State or local regulatory agencies and must be followed accordingly. The following check points should be stressed during the cleaning and sanitizing operations.

**WE RECOMMEND DAILY CLEANING AND SANITIZING.**

## Troubleshooting Bacterial Count

☐ 1. Thoroughly clean and sanitize the machine regularly, including complete disassembly and brush cleaning.

☐ 2. Use all brushes supplied for thorough cleaning. The brushes are specially designed to reach all mix passageways.

☐ 3. Use the smaller, white bristle brush to clean the mix inlet hole which extends from the mix hopper down to the rear of the freezing cylinder.

☐ 4. Use the black bristle brush to thoroughly clean the rear shell bearing located at the rear of the freezing cylinder. Be sure to have a generous amount of cleaning solution on the brush.

☐ 5. IF LOCAL HEALTH CODES PERMIT THE USE OF RERUN, make sure the mix rerun is stored in a sanitized, covered stainless steel container and is used the following day. DO NOT prime the machine with rerun. When using rerun, skim off the foam and discard. Mix the rerun with fresh mix in a ratio of 50/50 during the day's operation.

☐ 6. On a designated day of the week, run the mix as low as feasible and discard after closing. This will break the rerun cycle and reduce the possibility of high bacteria and coliform counts.

☐ 7. Properly prepare the cleaning and sanitizing solutions. Read and follow label directions carefully. Too strong of a solution may damage the parts and too weak of a solution will not do an adequate job of cleaning or sanitizing.

☐ 8. The temperature of the mix in the mix hopper and walk-in cooler should be below 40°F. (4.4°C.).

## Regular Maintenance Checks

☐ 1. Check the rear shell bearing for signs of wear (excessive mix leakage in rear drip pan) and be certain it is properly cleaned.

☐ 2. Using a screwdriver and cloth towel, keep the rear shell bearing and the female hex drive socket clean and free of lubricant and mix deposits.

☐ 3. Dispose of o-rings or seals if they are worn, torn, or fit too loosely, and replace with new ones.

☐ 4. Follow all lubricating procedures as outlined in "Assembly".

☐ 5. If your machine is air cooled, check the condenser for an accumulation of dirt and lint. A dirty condenser will reduce the efficiency and capacity of the machine. Condensers should be cleaned **monthly** with a soft brush. **Never** use screwdrivers or other metal probes to clean between the fins.

**CAUTION: Always disconnect electrical power prior to cleaning the condenser.** Failure to follow this instruction may result in electrocution.

☐ 6. If your machine is equipped with an auxiliary refrigeration system, check the auxiliary condenser for accumulation of dirt and lint. A dirty condenser will reduce the refrigeration capacity of the mix hopper. Condensers must be cleaned **monthly** with a soft brush. **Never** use screwdrivers or other metal probes to clean between the fins. Failure to comply may result in electrocution.

☐ 7. If your machine is water cooled, check the water lines for kinks or leaks. Kinks can occur when the machine is moved back and forth for cleaning or maintenance purposes. Deteriorated or cracked water lines should be replaced only by an authorized Taylor mechanic.

## Winter Storage

If the place of business is to be closed during the winter months, it is important to protect the freezer by following certain precautions, particularly if the building is subject to freezing conditions.

Disconnect the freezer from the main power source to prevent possible electrical damage.

On water cooled freezers, disconnect the water supply. Relieve pressure on the spring in the water valve. Use air pressure on the outlet side to blow out any water remaining in the condenser, and then add a liberal amount of permanent type auto anti-freeze. **This is extremely important.** Failure to follow this procedure may cause severe and costly damage to the refrigeration system.

Your local Taylor distributor can perform this service for you.

Wrap detachable parts of the freezer such as the beater assembly and freezer door, and place them in a protected dry place. Rubber trim parts and gaskets can be protected by wrapping them with moisture-proof paper. All parts should be thoroughly cleaned of dried mix or lubrication accumulations which attract mice and other vermin.

# Section 8 Troubleshooting Guide

| PROBLEM | PROBABLE CAUSE | REMEDY | PAGE REF. |
|---|---|---|---|
| 1. No product being dispensed. | a. The power switch is in the OFF position. | a. Place the power switch in the AUTO position. | 14 |
| | b. The mix level is inadequate in the mix hopper. | b. Fill the mix hopper with mix. | 15 |
| | c. The beater motor overloaded. | c. Reset the freezer. | 10 |
| | d. The unit is unplugged at the wall receptacle. | d. Plug in the power cord. Press the push-button switch. | 10 |
| | e. The circuit breaker is tripped or the fuse is blown. | e. Place the circuit breaker in the “ON” position, or replace the fuse. Press the push-button switch. | 10 |
| | f. The freezer door is incorrectly assembled. | f. See “Operating Procedures” for proper installation. | 12 |
| | g. Product is being drawn off in excess of the freezer’s capacity. | g. Stop drawing product and allow the unit to recover. | - - - |
| 2. The machine will not operate in the AUTO mode. | a. The unit is unplugged. | a. Plug in the power cord; press the push-button switch. | 10 |
| | b. The refrigeration system is not activated. | b. Momentarily raise the draw switch to activate the refrigeration system. | 16 |
| | c. The circuit breaker is tripped, or the fuse is blown. | c. Place the circuit breaker in the ON position, or replace the fuse. Press the push-button switch. | 10 |
| | d. The beater motor overloaded, causing a loss of power to the power switch. | d. Reset the freezer. | 10 |
| 3. The product is too stiff. | a. The control is set too cold. | a. Contact service technician. | 10 |

| PROBLEM | PROBABLE CAUSE | REMEDY | PAGE REF. |
|---|---|---|---|
| 4. The product is too soft. | a. The control is set too warm. | a. Contact service technician. | 10 |
| | b. The air tube is not installed. | b. Install the air tube in the mix inlet hole at the bottom of the mix hopper. | 15 |
| | c. Out-drawing the freezer's capacity. | c. Two 4 oz. (113.4 gram) servings in one minute. | - - - |
| 5. The freezing cylinder walls are scored. | a. Operating freezer without the front bearing on the freezer door. | a. Install the front bearing on the freezer door. | 12 |
| | b. The gear unit or the direct drive is out of alignment. | b. Contact service technician. | - - - |
| 6. Excessive leakage in rear drip pan. | a. A worn or defective o-ring is on the beater drive shaft. | a. Replace o-rings every 3 months. | 24 |
| | b. The rear shell bearing is worn. | b. Contact service technician. | - - - |
| | c. Incorrect lubricant was used. | c. Use food grade lubricant (example: Taylor Lube). | 11 |
| | d. Inadequate lubrication of beater drive shaft. | d. Lubricate the beater drive shaft properly. | 11 |
| 7. The draw valve is leaking. | a. Incorrect lubricant was used. | a. Use food grade lubricant (example: Taylor Lube). | 12 |
| | b. Worn or defective o-rings are on the draw valve. | b. Replace o-rings every 3 months. | 24 |
| | c. Inadequate lubrication of draw valve. | c. Lubricate the draw valve properly. | 12 |
| 8. Product is not feeding into the freezing cylinder. | a. The mix level is inadequate in the mix hopper. | a. Fill the mix hopper with mix. | 15 |
| | b. The mix inlet hole is frozen. | b. Contact service technician. | 10 |

| PROBLEM | PROBABLE CAUSE | REMEDY | PAGE REF. |
|---|---|---|---|
| 9. The unit goes out on overload excessively. | a. There are too many appliances plugged into the circuit. | a. A **separate** 20A circuit is needed for the freezer to operate properly. | - - - |
| | b. An extension cord has been placed between the power cord and the wall receptacle. | b. If the extension cord is used, it must match the power cord in size of circuit ampacity. | - - - |
| 10. Mix from one freezing cylinder bleeds over to the second cylinder. | a. The center draw valve seal is worn, or is improperly lubricated. | a. Lubricate properly and replace seal every 3 months. | 12 / 24 |

# Section 9 Parts Replacement Schedule

| PART DESCRIPTION | EVERY 3 MONTHS | EVERY 6 MONTHS | ANNUALLY | QTY. |
|---|---|---|---|---|
| Beater Drive Shaft O-Ring | X | | | 2 |
| Freezer Door O-Ring | X | | | 2 |
| Freezer Door Front Bearing | X | | | 2 |
| Freezer Door Guide Bearing | X | | | 2 |
| Draw Valve O-Ring | X | | | 4 |
| Center Draw Valve Seal | X | | | 1 |
| Pivot Pin O-Ring | X | | | 2 |
| Black Bristle Brush, 1” x 2” | | Inspect & Replace if Necessary | Minimum | 1 |
| Double Ended Brush | | Inspect & Replace if Necessary | Minimum | 1 |
| White Bristle Brush, 1” x 2” | | Inspect & Replace if Necessary | Minimum | 1 |
| White Bristle Brush, 3” x 7” | | Inspect & Replace if Necessary | Minimum | 1 |

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|---|---|---|---|---|---|
| BEARING-FRONT | 023262 | 2 | 000 | | |
| BEARING-GUIDE | 014496 | 2 | 000 | | |
| BEARING-REAR SHELL *150-52-68* | 023648 | 2 | 000 | | |
| +COLLAR-REAR BEARING *150-2-68* | 025564 | 2 | 103 | | |
| +NUT-REAR BEARING *150-52-68* | 023647 | 2 | 000 | | |
| +TAB-BEARING LOCK *150-2-68* | 025027 | 2 | 000 | | |
| BEATER A. *150-2-162-168* | X24689 | 2 | 103 | | |
| +O-RING-13/16 OD X .139W | 021278 | 2 | 000 | | |
| BELT-AX24 | 055201 | 1 | 000 | | |
| BELT-AX42 | 023877 | 1 | 000 | | |
| BLOCK-TERMINAL 7 POLE | 022606 | 1 | 103 | 208-230V 60HZ 1PH | |
| BOARD-LOGIC-GEN 2.6-SD | X36641SER1 | 2 | 212 | | |
| BOARD-POWER-GEN 1 & 2 | X32326-SER | 2 | 212 | | |
| BRUSH-DOUBLE ENDED-PUMP&FEED T | 013072 | 1 | 000 | | |
| BRUSH-DRAW VALVE 1"ODX2"X17"L | 013073 | 1 | 000 | | |
| BRUSH-MIX PUMP BODY-3"X7"WHITE | 023316 | 1 | 000 | | |
| BRUSH-REAR BRG 1IN.DX2IN.LGX14 | 013071 | 1 | 000 | | |
| CABLE-RIBBON-PWR/RELAY-60 IN | 032445 | 2 | 103 | | |
| CAP-DESIGN-1.010"ID-6 POINT | 014218 | 3 | 000 | | |
| COLLAR-HOLDING | 019481 | 2 | 103 | | |
| COMPRESSOR RS80C1E-CAV-224 | 051958-27 | 1 | 512 | MAIN 208-230V 60HZ 1PH | |
| +CAPACITOR-RUN- 20UF/440V | 012906 | 1 | 103 | | |
| +CAPACITOR-START-189-227UF/330V | 033044-1 | 1 | 103 | | |
| +KIT-MOUNTING-COMPRESSOR RS | 052196 | 1 | 000 | | |
| +RELAY-START-COMPRESSOR | 051957-27 | 1 | 103 | | |
| COMPRESSOR PL35G | 055187-27 | 1 | 512 | SHR | |
| +CAPACITOR-START- 43-52UF/250V | 033041 | 1 | 103 | | |
| +RELAY-START-COMPRESSOR | 055358 | 1 | 103 | | |
| +KIT-MOUNTING-COMPRESSOR | 047704 | 1 | 000 | | |
| CONDENSER-AC-12LX16HX2.5-3 ROW | 055140 | 1 | 103 | | |
| CONTACTOR-230VAC 1PH 50/60HZ | 055248-27 | 3 | 103 | BEATER MOTOR RELAY | |
| COVER A.-HOPPER *162-168* | X37963 | 1 | 103 | | |

+ Available Separately

+ Available Separately

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|---|---|---|---|---|---|
| +GASKET-HOPPER COVER-8QT | 037042 | 1 | 000 | | |
| KNOB-MIX COVER | 025429 | 1 | 103 | | |
| CORD-POWER-250V-15A-95”L-SO | 042936-27 | 1 | 103 | | |
| DECAL-DEC-TAYLOR 161 GEN 11 | 055511 | 1 | 000 | | |
| DECAL-INST-CLN HPR | 019029 | 1 | 000 | | |
| DECAL-TROUBLESHOOT | 038374 | 1 | 000 | | |
| DIAGRAM-WIRING *161* | 055376-27S | 1 | 000 | 208-230V 60HZ 1PH | |
| DOOR A.-3 SPOUT-1.5 QT | X30753-SER | 1 | 103 | | |
| HANDLE-DRAW VALVE | 030564 | 3 | 103 | | |
| O-RING-2-3/4 OD X .139W | 019998 | 2 | 000 | DOOR | |
| O-RING-5/16 OD X .070W | 016272 | 2 | 000 | PIVOT PINS | |
| O-RING-7/8 OD X .103W | 014402 | 4 | 000 | DRAW VALVES | |
| PIN A.-PIVOT *168-LONG* | X38538 | 1 | 103 | | |
| PIN A.-PIVOT *168-SHORT* | X38539 | 1 | 103 | | |
| SEAL-VALVE | 030930 | 1 | 000 | CENTER DRAW VALVE | |
| VALVE-DRAW *150-2* | 024763 | 2 | 103 | | |
| VALVE-DRAW-CENTER *TM* | 031164 | 1 | 103 | | |
| DRYER-CAP. TUBE .021 ID X 9FT | 055522 | 1 | 000 | | |
| DRYER-FILTER 1/4 X 1/4 SOLDER | 048878 | 1 | 000 | | |
| FASTENER-CLIP 1/4-20 U-TYPE | 045865 | 8 | 000 | PANELS | |
| FASTENER-CLIP 10-32 J TYPE | 048353 | 2 | 000 | RIGHT PANEL | |
| FILTER-AIR 13.5X17.75X7/16 | 042703 | 1 | 000 | | |
| GEAR A.*REDUCER 4 TO 1 | 025770 | 2 | 212 | | |
| HOOD A. *161* SOLDERED | X55118 | 1 | 103 | | |
| KIT A.-TUNE UP*162-168* | X31167 | 1 | 000 | | |
| BEARING-FRONT | 023262 | 2 | 000 | | |
| BEARING-GUIDE | 014496 | 2 | 000 | | |
| CAP-DESIGN-1.010”ID-6 POINT | 014218 | 3 | 000 | | |
| O-RING-13/16 OD X .139W | 021278 | 2 | 000 | | |
| O-RING-2-3/4 OD X .139W | 019998 | 2 | 000 | | |
| O-RING-5/16 OD X .070W | 016272 | 2 | 000 | | |
| O-RING-7/8 OD X .103W | 014402 | 4 | 000 | | |
| SEAL-VALVE | 030930 | 1 | 000 | | |

+ Available Separately

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|---|---|---|---|---|---|
| TOOL-O-RING REMOVAL-FREEZER | 048260-WHT | 1 | 000 | | |
| LABEL-CAUTION-GRD-PERM-ENG/SP | 032164 | 1 | 000 | | |
| LABEL-DOOR-MOVE PART | 032749 | 1 | 000 | | |
| LABEL-SW-POWER-OFF/ON-SYMBOLS | 052632 | 1 | 000 | | |
| LABEL-WARN-COVER | 051433 | 5 | 000 | | |
| LABEL-WARN-ELEC-TW-SMALL | 032718 | 1 | 000 | | |
| LEG-4” 3/8-16 STUD | 036397 | 4 | 103 | | |
| +CAP-RUBBER | 037268 | 4 | 000 | | |
| LUBRICANT-TAYLOR 4 OZ. | 047518 | 1 | 000 | | |
| MAN-OPER 161 | 055155-M | 1 | 000 | | |
| MOTOR-1/2 HP 1PH 60 HZ | 055097-27 | 2 | 212 | 208-230V 60HZ 1PH | |
| +CAPACITOR-START-60UF-220/275V | 047703 | 2 | 103 | | |
| +CAPACITOR-RUN- 9-11UF/370V | 025962 | 2 | 103 | | |
| MOTOR-FAN 50 WATT | 029770-27 | 1 | 103 | | |
| +FAN-5 BLADE 12” PUSH 22DEG CCW | 049009 | 1 | 103 | | |
| NUT-STUD *150-152-162-168* | 034829 | 2 | 103 | HANDSCREWS | |
| OVERLOAD-THERMAL-2P-2.4/3.6A | 055249-27G | 2 | 103 | BEATER MOTOR OVERLOAD | |
| PAIL-6 QT. | 023348 | 1 | 000 | | |
| PAN-DRIP *161* | 055206 | 2 | 103 | | |
| PANEL A.-FRONT *161* | X55203 | 1 | 103 | | |
| PANEL A.-SIDE LEFT *161* | X55122 | 1 | 103 | | |
| PANEL-LOWER FRONT *161* GENII | 055513 | 1 | 103 | | |
| PANEL-REAR *161* | 055129 | 1 | 103 | | |
| PANEL-SIDE-RIGHT *161* | 055130 | 1 | 103 | | |
| PANEL-SKIRT-AIR *161* | 055508 | 1 | 103 | | |
| PLATE-DEC *161* GENII | 055512 | 1 | 103 | | |
| PROBE A.-MIX *SQUARE* | X30922 | 2 | 103 | | |
| +DISC-PROBE *SQ HOLE* | 030965 | 2 | 103 | | |
| +SPACER-PROBE *SQ HOLE* | 030966 | 2 | 103 | | |
| PROBE A.-THERMISTOR | X31602 | 2 | 103 | SHR | |
| PROBE-THERMISTOR-BARREL-2% TOL | 038061-BLK | 1 | 103 | BARREL | |
| PULLEY-5.7” PITCH DIA X 5/8 | 041498 | 2 | 103 | GEAR | |
| PULLEY-AK20X5/8 | 041162 | 2 | 103 | BEATER MOTOR | |

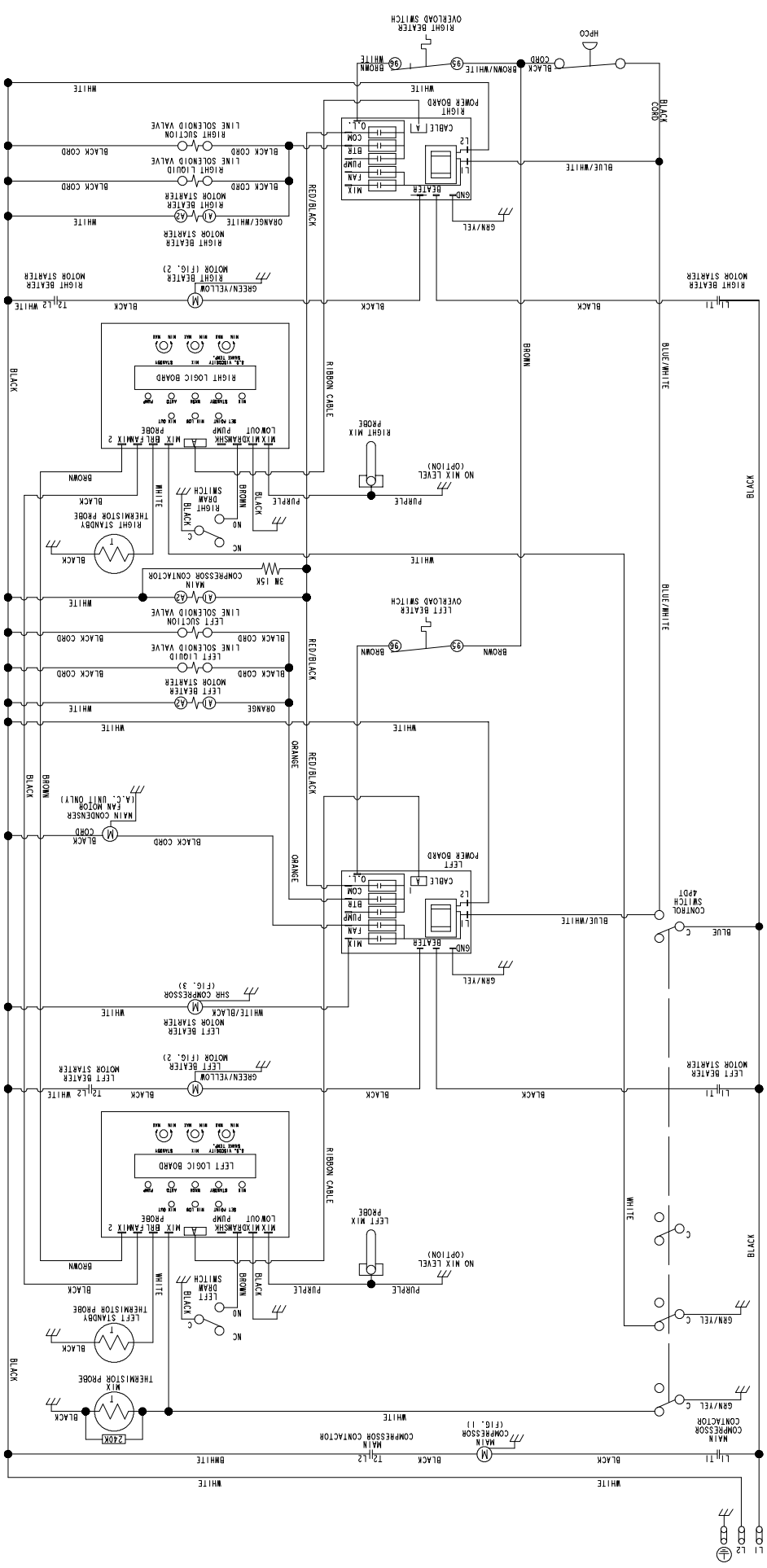
+ Available Separately

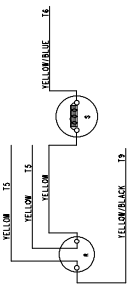
| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|---|---|---|---|---|---|
| RESISTOR A.-*161* CONT. BOX* | X55449 | 1 | 103 | BEATER MOTOR CONTACTOR | |
| SANITIZER KAY-5 125 PACKETS | 041082 | 1 | 000 | | |
| SHELL A.-INSULATED *161*GEN 11 | X55629 | 1 | 512 | | |
| +STUD-NOSE CONE-5/16-18X5/16-18 | 013496 | 2 | 103 | | |
| SHIELD-SPLASH *5454-8-752-336* | 022765 | 1 | 103 | | |
| SHROUD-CONDENSER *161* | 055128 | 1 | 103 | | |
| SWITCH A.-DRAW *161* | X55234 | 2 | 103 | | |
| +ACTUATOR-SWITCH, PLASTIC | 035609 | 2 | 103 | | |
| +ARM A.-SWITCH *162-168* | X30736 | 2 | 103 | | |
| BEARING-SWITCH | 029244 | 4 | 000 | | |
| BRACKET-SWITCH *168* | 035524 | 2 | 103 | | |
| +E-RING-1/4 IN-ZD | 034962 | 2 | 000 | | |
| INSULATOR-SWITCH 1/64 ARMITE | 029099 | 2 | 000 | | |
| NUT-PUSH ON-1/2DIA. SHAFT | 039735 | 4 | 000 | | |
| SCREW-4-40X1 RD HD STEEL-ZP | 028890 | 4 | 000 | | |
| +SCREW-6-32X3/8 BIN.HD SLOT SS | 002201 | 4 | 000 | | |
| +SPRING-COMP.720X.063X2.00 | 023664 | 2 | 103 | | |
| SWITCH-LEVER-SPDT-15A-125-250V | 027214 | 2 | 103 | | |
| SWITCH-PRESSURE 405 PSI-SOLDER | 052663 | 1 | 103 | | |
| SWITCH-TOGGLE-4PDT*ON-NONE-ON | 037394 | 1 | 103 | | |
| TRAY-DRIP 16-7/8L X 5-1/8 | 020157 | 1 | 103 | | |
| TUBE-FEED-SS-TM-TWIN | 030797 | 2 | 103 | | |
| VALVE-ACCESS 1/4FL X 1/4SOLDER | 044404 | 1 | 103 | | |
| VALVE-ACCESS-1/4 MFLX1/4 S-90 | 047016 | 1 | 103 | | |
| VALVE-ACCESS-1/4MFL X 3/8ODSDR | 053565 | 2 | 103 | | |
| VALVE-EPR 1/4S | 022665 | 1 | 103 | | |
| VALVE-EXP-AUTO-1/4S X 1/4FPT | 047232 | 2 | 103 | | |
| +BOOT-EXPANSION VALVE | 027137 | 2 | 000 | | |
| VALVE-SOLENOID 5/16ORFX1/2ODF | 044982-27 | 2 | 103 | SUCTION LINE | |
| VALVE-SOLENOID 7/64ORF X 1/4S | 043449-27 | 2 | 103 | LIQUID LINE | |
| VALVE-TREV 3/8X3/8 220 *161* | 055378 | 1 | 103 | LIQUID REINJECTION VALVE | |
| VIDEO-TRAIN FILM-SS-TAYLORMATE | 037665-V | 1 | 000 | | |

+ Available Separately

| DESCRIPTION | PART NUMBER | QTY. | WARR. CLASS | REMARKS | PARTS UPDATE |
|---|---|---|---|---|---|
| **50Hz** | | | | | |
| BLOCK-TERMINAL-7 POLE GREEN | 024156 | 1 | 103 | 220-240V 50HZ 1PH | |
| DIAGRAM-WIRING *161* | 055376-40S | 1 | 000 | " | |
| COMPRESSOR RS80C1E-CAZ-224 | 051958-40 | 1 | 512 | " | |
| RELAY-START-COMPRESSOR | 051957-40 | 1 | 103 | " | |
| CAPACITOR-START- 64-77UF/250V | 051960 | 1 | 103 | " | |
| CAPACITOR-RUN- 20UF/370V | 023606 | 1 | 103 | " | |
| MOTOR-1/2 HP 1 PH 50 HZ 230V | 055097-34 | 2 | 212 | " | |
| CAPACITOR-START- 64-77UF/250V | 026657 | 2 | 103 | " | |
| VIDEO-TRAIN FILM-SS-TAYLORMATE | 037665-PAL | 1 | 000 | " | |

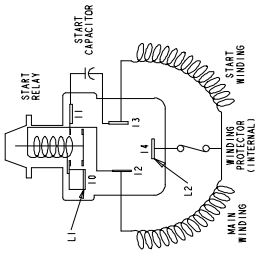
GROUND FRAME SECURELY



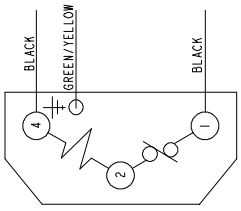

EXTERNAL B/M CAPACITORS

FIG. 4



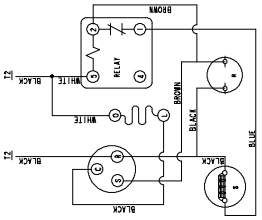

COMPRESSOR WIRING MODEL W/HST1

FIG. 3




.5 HP HEATER MOTOR (021489-27)

FIG. 2




COPELAND RS80 COMPRESSOR WIRING

FIG. 1

**Model 161**
**055376-27S**
**Rev. 8/01**

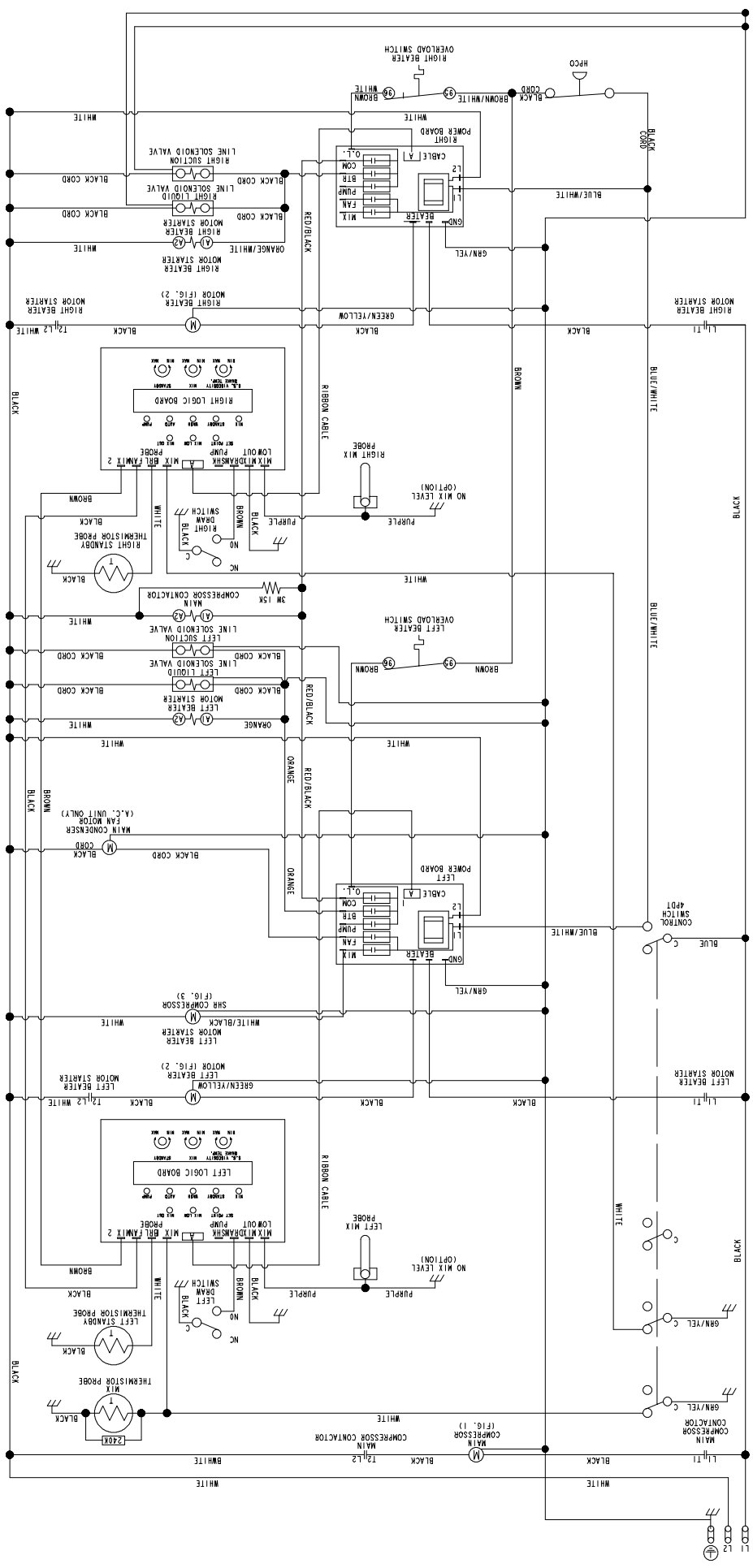



FIG. 4

FIG. 3

FIG. 2

FIG. 1

**Model 161**
**055376-40S**
**Rev. 8/01**